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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,634	11/28/2001	Daryl Dean Schroeder	10015860-1	7723

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EXAMINER

PHAM, TUAN

ART UNIT	PAPER NUMBER
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2643

DATE MAILED: 09/30/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/994,634

Applicant(s)

SCHROEDER, DARYL DEAN

Examiner

TUAN A. PHAM

Art Unit

2643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3, 5-14, and 21-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1-3, and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singkornrat et al. (U.S. Patent No.: 6,128,484, hereinafter, "Singkornrat") in view of Jung (U.S. Patent No.: 6,041,225).**

**Regarding claim 1**, Singkornrat teaches a computer system (see figure 1), comprising:

a computer wireless transceiver (see figure 1, transceiver 14, col.1, ln.46-50) performing wireless communications and capable of being connected to and relaying the wireless communications to and from a computer main unit (see figure 1, computer 12, transceiver 14, transceiver 16, col.2, ln.5-11);

a monitor wireless transceiver (see figure 1, transceiver 16, col.1, ln.46-50) performing wireless communications;

a computer display device (i.e., TV monitor) connected to the monitor wireless transceiver and receiving communication signals from the monitor wireless transceiver (see figure 1, TV monitor 24, transceiver 16, col.2, ln.51-67, col.3, ln.1-14); and

wherein the monitor wireless transceiver and the computer display device comprise a wireless computer monitor that is capable of receiving data from and

transmitting data to the computer main unit in a wireless manner through the monitor wireless transceiver and the computer wireless transceiver (see figure 1, col.2, ln.51-67, col.3, ln.1-14).

It should be noticed that Singkornrat fails to teach a display driver coupled between said computer display device and said monitor wireless transceiver, wherein said display driver is configured to translate data between the monitor wireless transceiver and the computer display device. However, Jung teaches such features (see figure 1, computer 10, monitor 30, transceiver 31, display driver is included OSD circuit 33, video pre-amplifier 34-1, video output amplifier 34-2, col.2, ln.52-67, col.3, ln.1-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Jung into view of Singkornrat in order to display the video data to the user.

**Regarding claim 2**, Singkornrat further teaches a computer system wherein the computer wireless transceiver and the monitor wireless transceiver employ radio frequency (RF) communications (see col.2, ln.8).

**Regarding claim 3**, Singkornrat further teaches a computer system wherein the computer wireless transceiver and the monitor wireless transceiver employ infrared (IR) communications (see col.2, ln.8).

**Regarding claim 7**, Singkornrat further teaches a computer system wherein the wireless computer monitor further comprises: a keyboard port capable of connecting a keyboard to the wireless computer monitor; and a keyboard driver; wherein the

keyboard port and the keyboard driver are connected to the monitor wireless transceiver and are capable of relaying data from the keyboard to the computer main unit in a wireless manner (see col.2, ln.12-19, it is inherently that the remote transceiver 16 should be included keyboard port and keyboard driver).

**Regarding claim 8**, Singkornrat further teaches a method and computer system wherein the wireless computer monitor further comprises: a pointing device port capable of connecting one or more pointing devices to the wireless computer monitor; and a pointing device driver; wherein the pointing device port and the pointing device driver are connected to the monitor wireless transceiver and are capable of relaying data from the one or more pointing devices to the computer main unit in a wireless manner (see col.2, ln.12-19, it is inherently that the remote transceiver 16 should be included pointing port and pointing driver).

**3. Claims 9-11, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singkornrat et al. (U.S. Patent No.: 6,128,484, hereinafter, "Singkornrat") in view of Schindler et al. (U.S. Patent No.: 5,867,223, hereinafter, "Schindler").**

**Regarding claim 9**, Singkornrat teaches a computer system (see figure 1), comprising:

a computer wireless transceiver (see figure 1, transceiver 14, col.1, ln.46-50) couple to the computer main unit, for relaying wireless communications to and from the computer main unit (see figure 1, computer 12, transceiver 14, col.2, ln.5-11); and  
a first wireless computer monitor comprising:

a monitor wireless transceiver (see figure 1, transceiver 16, col.1, ln.46-50) performing wireless communications;

a computer display device (i.e., TV monitor) connected to the monitor wireless transceiver, wherein the monitor wireless transceiver is configured to transmit a wireless communication to the computer wireless transceiver (see figure 1, TV monitor 24, transceiver 16, transceiver 14, CPU 12, col.2, ln.51-67, col.3, ln.1-14).

It should be noticed that Singkornrat fails to teach a computer main unit, having a unique address associated therewith, and the wireless communication includes data unique address for wireless communication. However, Schindler teaches a wireless audio system with such features (see figure, 1A, 1B, figure 17, speaker 144, headset 143, 142, transmitter 140, 141, col.7, ln.30-65, it is obvious that computer 118 store all the address associate with each device is connected to the computer 118, such as headset 143, TV 122, each device will assign one unique address for communicating with computer 118 to avoid the conflict).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Schindler into view of Singkornrat in order to communicate in wireless fashion.

**Regarding claim 10**, Singkornrat further teaches a method and computer system wherein the computer wireless transceiver and the monitor wireless transceiver employ radio frequency (RF) communications.(see col.2, ln.8).

**Regarding claim 11**, Singkornrat further teaches a method and computer system wherein the computer wireless transceiver and the monitor wireless transceiver employ infrared (IR) communications (see col.2, ln.8).

**Regarding claim 21**, Singkornrat further teaches a computer system comprising a second wireless computer monitor, said second wireless computer monitor for wireless communication, and including a monitor wireless transceiver performing wireless communications, and a computer display device connected to said monitor wireless transceiver, wherein said second wireless computer monitor is capable of receiving data from and transmitting data to said computer main unit in a wireless manner through said monitor wireless transceiver and said computer wireless transceiver, concurrently with said first wireless computer monitor (see figure 1, TV monitor 24, transceiver 16, transceiver 14, CPU 12, col.2, ln.51-67, col.3, ln.1-14). Schindler further teaches a unique address for wireless communication (see figure 1, speaker 144, headset 143, col.3, ln.14-26, it is obvious that computer 118 store all the address associate with each device is connected to the computer 118, such as headset 143, TV 122, each device will assign one unique address for communicating with computer 118 to avoid the conflict).

**Regarding claim 22**, Singkornrat further teaches a method and computer system wherein the wireless computer monitor further comprises: a keyboard port capable of connecting a keyboard to the wireless computer monitor; and a keyboard driver; wherein the keyboard port and the keyboard driver are connected to the monitor wireless transceiver and are capable of relaying data from the keyboard to the computer

main unit in a wireless manner (see col.2, ln.12-19, it is inherently that the remote transceiver 16 should be included pointing port and pointing driver).

**Regarding claim 23**, Singkornrat further teaches a method and computer system wherein the wireless computer monitor further comprises: a pointing device port capable of connecting one or more pointing devices to the wireless computer monitor; and a pointing device driver; wherein the pointing device port and the pointing device driver are connected to the monitor wireless transceiver and are capable of relaying data from the one or more pointing devices to the computer main unit in a wireless manner (see col.2, ln.12-19, it is inherently that the remote transceiver 16 should be included pointing port and pointing driver).

4. **Claims 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Riaz et al. (U.S. Patent No.: 6,748,005, hereinafter, "Riaz") in view of Jung (U.S. Patent No.: 6,041,225).**

**Regarding claim 25**, Riaz teaches a computer system, (see figure 1) comprising:

a computer wireless transceiver (see base station 20) performing wireless communications and being connected to a computer main unit and for relaying said wireless communications to and from the computer main unit (see figure 1, CPU 30, col.3, ln.55-67), and

a first wireless computer monitor (see figure 1, antenna 34), including



a) a monitor wireless transceiver performing wireless communications (see figure 8, data radio modem 112),

b) a computer display device connected to said monitor wireless transceiver and transmitting communication signals to and receiving communication signals from said monitor wireless transceiver (see figure 1, figure 8, display 14, data radio modem 112, antenna 34).

It should be noticed that Riazi fails to teach data translation means, coupled between said computer display device and said monitor wireless transceiver, for translating data between the monitor wireless transceiver and the computer monitor device. However, Jung teaches such features (see figure 1, computer 10, monitor 30, transceiver 31, display driver is included OSD circuit 33, video pre-amplifier 34-1, video output amplifier 34-2, col.2, ln.52-67, col.3, ln.1-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Jung into view of Singkornrat in order to display the video data to the user.

**Regarding claim 26**, Jung further teaches data translation means comprises a display driver (see figure 1, computer 10, monitor 30, transceiver 31, display driver is included OSD circuit 33, video pre-amplifier 34-1, video output amplifier 34-2, col.2, ln.52-67, col.3, ln.1-40).

**5. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singkornrat et al. (U.S. Patent No.: 6,128,484, hereinafter, "Singkornrat") in view of Jung (U.S. Patent No.: 6,041,225) as applied to claim 1 above, and further in view of Riazi et al. (U.S. Patent No.: 6,748,005, hereinafter, "Riazi").**

**Regarding claim 5**, Singkornrat and Jung, in combination, fails to teach a computer system further comprises: an audio port capable of connecting one or more audio devices to the base station; and an audio driver; wherein the audio port and the audio driver are connected to the monitor wireless transceiver (i.e., base station) and are capable of relaying data between the computer main unit and the one or more audio devices in a wireless manner. However, Riazi teaches such features (see figure 1, base station 20, antenna 86, audio port 62, 64, col.3, ln.56-67, col.4, ln.25-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Riazi, into view of Singkornrat and Jung in order to provide the audio to the user in wireless fashion.

**Regarding claim 6**, Riazi further teaches a method and computer system wherein the audio port and the audio driver relay data to and from the one or more audio devices (see figure 1, figure 8, audio port 24, audio demodulator 110, speaker 52, MIC 54, col.4, ln.25-40).

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**6. Claims 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singkornrat et al. (U.S. Patent No.: 6,128,484, hereinafter, "Singkornrat") in view of Schindler et al. (U.S. Patent No.: 5,867,223, hereinafter, "Schindler") as applied to claim 9 above, and further in view of Riazi et al. (U.S. Patent No.: 6,748,005, hereinafter, "Riazi").**

**Regarding claim 12**, Singkornrat and Schindler, in combination, fails to teach a computer system further comprises: an audio port capable of connecting one or more audio devices to the base station; and an audio driver; wherein the audio port and the audio driver are connected to the monitor wireless transceiver (i.e., base station) and are capable of relaying data between the computer main unit and the one or more audio devices in a wireless manner. However, Riazi teaches such features (see figure 1, base station 20, antenna 86, audio port 62, 64, col.3, ln.56-67, col.4, ln.25-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Riazi, into view of Singkornrat and Schindler in order to provide the audio to the user in wireless fashion.

**Regarding claim 13**, Riazi further teaches a method and computer system wherein the audio port and the audio driver relay data to and from the one or more audio devices (see figure 1, figure 8, audio port 24, audio demodulator 110, speaker 52, MIC 54, col.4, ln.25-40).

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**7. Claims 14 and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Singkornrat et al. (U.S. Patent No.: 6,128,484, hereinafter, "Singkornrat") in view of Schindler et al. (U.S. Patent No.: 5,867,223, hereinafter, "Schindler") as applied to claim 9 above, and further in view of Jung (U.S. Patent No.: 6,041,225).**

Regarding claims 14 and 24, Singkornrat and Schindler, in combination, fails to teach a display driver coupled between said computer display device and said monitor wireless transceiver, wherein said display driver is configured to translate data between the monitor wireless transceiver and the computer display device. However, Jung teaches such features (see figure 1, computer 10, monitor 30, transceiver 31, display driver is included OSD circuit 33, video pre-amplifier 34-1, video output amplifier 34-2, col.2, ln.52-67, col.3, ln.1-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Jung into view of Singkornrat in order to display the video data to the user.

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8. Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Riazi et al. (U.S. Patent No.: 6,748,005, hereinafter, "Riazi") in view of Jung (U.S. Patent No.: 6,041,225) as applied to claim 25 above, and further in view of Schindler et al. (U.S. Patent No.: 5,867,223, hereinafter, "Schindler").

Regarding claim 27, Riazi and Jung, in combination, fails to teach a second wireless computer monitor, and wherein each of said first and second wireless computer monitors have a unique address for wireless communication, such that each of said first and second wireless computer monitors is capable of receiving unique data from said computer wireless transceiver concurrently with the other of said first and second wireless computer monitors. However, Schindler teaches such features (see figure, 1A, 1B, figure 17, transmitter 140, 141, monitors 122, 122', col.7, ln.30-65, it is obvious that computer 118 store all the address associate with each monitor 122, 122' is connected to the computer 118, monitors 122, 122' will assign the same address for communicating with computer 118 to avoid the conflict).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Schindler into view of Riazi and Jung in order to display the video data to both monitors at the same time.

### Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan A. Pham** whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:00 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz can be reached on (571) 272-7499 and

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Art Unit 2643  
September 23, 2005  
Examiner

Tuan Pham

  
**CURTIS KUNTZ**  
**PATENT EXAMINER**  
**CENTER 2600**